

PGAM PTO-1443
(REV. 7-80)INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

ATTY. DOCKET NO.
SPC92-02A2SERIAL NO.
08/382,744APPLICANT
John MorleyFILING DATE
February 2, 1995GROUP
1206

U.S. PATENT DOCUMENTS

EXAM- INER INTI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
W	AA	3,341,593	9-12-67	Zeile et al.			
	AB	3,994,974	11-30-76	Murakami et al.	260	562A	
	AC	4,119,710	10-10-78	Englehardt et al.	424	282	
	AD	3,885,047	5-20-75	Seidehamel et al.	424	330	
W	AE	3,985,897	10-12-76	Seidehamel et al.	424	321	
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
W	AL	2128258	11-AUG-83	Germany			
	AM	4014252	7-NOV-91	Germany			
	AN	2662691	6-DEC-91	France (Derwent Abstract only)			
	AO	2187734	16-SEP-87	UK			
	AP	455155	26-APR-91	EPO			
W	AQ	93/00090	7-JAN-93	WO			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

W	AR	Murase, K. et al., "Absolute Configurations of Four Isomers of 3-Formamido-4-hydroxy- α [(N-p-methoxy- α -methylpenethyl)amino]methyl]benzyl] Alcohol, a Potent β -Adrenoreceptor Stimulant," Chem. Pharm. Bull., 26(4):1123-1129 (1978).
	AS	Schill, G. et al., "Chiral Separations of Cationic and Anionic Drugs on an α_1 -Acid Glycoprotein-Bonded Stationary Phase (ENANTIOPAC®)," Journal of Chromatography, 365:73-88 (1986).
W	AT	Hartley D. and Middlemiss D., "Absolute Configuration of the Optical Isomers of Salbutamol," Journal of Medicinal Chemistry, 14(9):895-896 (1971).

EXAMINER

M. L. Oosh

DATE CONSIDERED

4/14/05

FORM PTO-1449
(REV. 7-80)

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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.).

u	AU	Okamoto, Y. et al., "Optical Resolution of Racemic Drugs by Chiral HPLC on Cellulose and Amylose Tris(Phenylcarbamate) Derivatives," <i>Journal of Liquid Chromotography</i> , 11:2147-2163 (1998).
	AV	Trofast, J. et al., "Steric Aspects of Agonism and Antagonism at β -Adrenoceptors: Synthesis of and Pharmacological Experiments With the Enantiomers of Formoterol and Their Diastereomers," <i>Chirality</i> , 3:443-450 (1991).
u	AW	Waldeck, B. and Widmark, E., "Steric Aspects of Agonism and Antagonism at β -Adrenoceptors: Experiments with the Enantiomers of Clenbuterol," <i>Acta Pharmacol. et Toxicol.</i> , 56:221-227 (1985).

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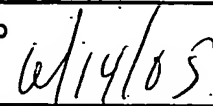
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>n</i>	AX	Borgström, L. et al., "Pharmacokinetic Evaluation in Man of Terbutaline Given as Separate Enantiomers and As the Racemate," <i>Br. J. Clin Pharmac.</i> , 27:49-56 (1989).
	AY	Koster, A. et al., "Stereoselective Formation of Fenoterol-Para-Glucuronide and Fenoterol- Meta-Glucuronide in Rat Hepatocytes and Enterocytes," <i>Biochemical Pharmacology</i> , 35(12):1981-1985 (1986).
	AZ	Tan, Y.K. and Soldin, S.J., "Analysis of Salbutamol Enantiomers in Human Urine by Chiral High-Performance Liquid Chromatography and Preliminary Studies Related to the Stereoselective Disposition Kinetics in Man," <i>J. Chromat.</i> , 422:187-195 (1987).
	AR2	Kaiser, G. et al., "Identification and Quantification of β -Adrenoceptor Sites in Red Blood cells from Rats," <i>Naunyn-Schmiedeberg's Arch. Pharmacol.</i> , 305:41-50 (1978).
	AS2	Hawkins, C.J. and Klease, G.T., "Relative Potency of (-) and (+) - Salbutamol on Guinea Pig Tracheal Tissue," <i>Journal Medicinal Chemistry</i> , 16(7):856-857 (1973).
	AT2	Brittain, R.T. et al., "Some Observations on the β -Adrenoceptor Agonist Properties of the Isomers of Salbutamol," <i>Br. J. Pharmac.</i> , 48:144-147 (1973).
	AU2	Buckner, C.K. and Abel, P., "Studies on the Effects of Enantiomers of Soteranol, Trimetoquinol and Salbutamol on BETA Adrenergic Receptors of Isolated Guinea-Pig Atria and Trachea," <i>J. Pharmacol Exp. Therap.</i> , 189(3):616-625 (1974).
<i>n</i>	AV2	Jeppsson, A.-B. and Waldeck, B., "Interaction Between Bambuterol and Physostigmine: Aspects on Cholinesterase Inhibition and Neuromuscular Transmission in the Smooth and Skeletal Muscles of the Guinea-Pig," <i>Pharmac. and Tox.</i> , 63:211-214 (1988).

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*Mook**2/14/95*

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		APPLICANT John Morley				
		FILING DATE February 2, 1995		GROUP 1206		
U.S. PATENT DOCUMENTS						
EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS SUB- CLASS	FILING DATE IF APPROPRIATE
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
	AW2	Computer Print-Out for Publications Relating to "TA-2005"				
	AX2	Index Nominum for Fenoterol and Formoterol.				
	AY2	USAN Cumulative List of References for Fenoterol and Formoterol (1961-1991).				
	AZ2	Package Insert for the Product Fenoterol as sold in Japan.				
	AR3	Merck Index 11th Edition, Item 9502-for Tretotoquinol.				
	AS3	Fogleman, F. and Grundy, H.F., "A Comparison of the Cardiovascular Actions of AQ 110 With Those of Isoprenaline and Salbutamol," Br. J. Pharmac., 38:416-432 (1970).				
	AT3	Ahn, C-H. et al., "Characterization of the Inhibition of U46619-Mediated Human Platelet Activation by the Trimetoquinol Isomers," Biochemical Pharmacology, 37(15):3023-3033 (1988).				
	AU3	Computer Printout of Scrip No. 1678, pg. 31 (December 18, 1991).				
	AV3	Scrip No. 1686, pg. 12 (January 24, 1992).				
	AW3	Patterson, J. W. et al., "State of the Art Bronchodilator Drugs," American Review of Respiratory Disease, 120:1149-1187 (1979).				
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U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

n	AX3	Kraan, J. et al., "Changes in Bronchial Hyperreactivity Induced by 4 Weeks of Treatment With Antiasthmatic Drugs in Patients With Allergic Asthma: A Comparison Between Budesonide and Terbutaline," <i>J. Allergy Clin. Immunol.</i> , 76(4):628-636 (1985).
	AY3	Vathenen, A.S. et al., "Rebound Increase in Bronchial Responsiveness After Treatment With Inhaled Terbutaline," <i>The Lancet</i> , pgs. 554-557 (1988).
	AZ3	Larsson, S., "Long-term Studies on Long-Acting Sympathomimetics," <i>Lung</i> , pgs. 22-24 (1990).
	AR4	van Schayck, C.P. et al., "Increased Bronchial Hyperresponsiveness After Inhaling Salbutamol During 1 Year Is Not Caused by Subsensitization to Salbutamol," <i>J. Allergy and Clinical Immunology</i> , 86(5):793-800 (1990).
	AS4	β , Agonists in Asma: Relief, Prevention, Morbidity," <i>Editorials, The Lancet</i> , 336:1411-1412 (1990).
	AT4	Sears, M. R. et al., "Regular Inhaled Beta-agonist Treatment in Bronchial Asthma," <i>The Lancet</i> , 336:1391-1396 (1990).
	AU4	Wong, C. S. et al., "Bronchodilator, Cardiovascular, and Hypokalaemic Effects of Fenoterol, Salbutamol, and Terbutaline in Asthma," <i>The Lancet</i> , 336:1396-1399 (1990).
	AV4	Burrows, B. and Lebowitz, M.D., "The β -Agonist Dilemma," <i>The New England Journal of Medicine</i> , 326(8):560-561 (1992).
	AW4	Spitzer, W. O. et al., "The Use of β -Agonists and the Risk of Death and Near Death From Asthma," <i>The New England Journal of Medicine</i> , 326(8):501-506 (1992).
n	AX4	Scrip No. 1639, Pg. 24 (August 2, 1991).

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W	AY4	Scrip No. 1657, pg. 20-21 (October 4, 1991).
	AZ4	Scrip No. 1678, pg. 30 (December 18, 1991).
	AR5	Chapman, I. et al., "An Anomalous Effect of Salbutamol in Sensitised Guinea-Pigs," Abstract 66 P, <i>British Journal of Pharmacology</i> , 99, Abstract No. 66P (1990).
	AS5	Barnes, P.J. and Chung, K.F., "Questions About Inhaled β_2 -Adrenoceptor Agonists in Asthma," <i>TIPS</i> , 13:20-23 (1992).
	AT5	Conolly, M.E. et al., "Resistance to β -adrenoceptor Stimulants (a possible explanation for the rise in asthma deaths)," <i>Br. J. Pharmac</i> , 43:389-402 (1971).
	AU5	Conolly, M. E., "Beta-Adrenergic Tachyphylaxis (Desensitization) and Functional Antagonism," pgs. 259-296.
	AV5	Morley, J. and Sanjar S., "Isoprenaline Induces Increased Airway Reactivity in the Guinea-Pig," <i>J. Physiol.</i> , 390:180P (1987).
	AW5	Sanjar, S. et al., "Increased Airway Reactivity in the Guinea-Pig Follows Exposure to Intravenous Isoprenaline," <i>Journal of Physiology</i> , 425:43-54 (1990).
	AX5	Sanjar, S. and Morley J., "Airway Hyperreactivity," <i>The Lancet</i> , 160-161 (July 16, 1988).
W	AY5	Fedyna, J.S. et al., "Pharmacological Evaluation of the β -Adrenoceptor Agonist and Thromboxane Antagonist Properties of N-Substituted Trimetoquional Analogues," <i>Euro. J. Pharm.</i> , 135:161-171 (1987).

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W	AZ5	Saihan, E. M., "Ketotifen and Terbutaline in Urticaria," <i>British Journal of Dermatology</i> , 104:205-206 (1981)...
I	AR6	Koshino, T., "Ketotifen Prevents Terbutaline-Induced Down-Regulation of Beta-Adrenoceptors in Guinea Pig Lung," <i>Biochemical and Biophysical Research Communications</i> , 152(3):1221-1227 (1988).
W	AS6	Mazzoni, L. et al., "An Anomalous Interaction Between Propranolol and Isoprenaline," <i>Br. J. Pharm.</i> , 91:526 (1987).

EXAMINER

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n	AP	5,362,755	11-8-94	Barberich et al.	514	649	12-7-93

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

n	AT6	Morley, J., et al., "Viewpoint: Untoward Effects of Beta-adrenoceptor Agonists in Asthma," <i>European Respiratory Journal</i> , 3:228-233 (1990).

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